

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

MICHEL R. GAGNE ET. AL.

CASE NO.: PI1245USDIV

APPLICATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

FILED: HEREWITH

EXAMINER: UNKNOWN

FOR: PHOSPHORUS-CONTAINING COMPOSITIONS  
AND THEIR USE IN HYDROCYANATION,  
ISOMERIZATION AND HYDROFORMYLATION  
REACTIONS

**INFORMATION DISCLOSURE STATEMENT**

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Commissioner for Patents  
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Alexandria, VA 22313-1450  
Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information that may be helpful in the examination of the above-identified patent application. All of the information is listed on attached Forms PTO/SB/08A and PTO/SB/08B.

Benefit of the earlier filing date of U.S. Patent Application No. 09/994,135, filed November 26, 2001, allowed on August 11, 2003 is claimed under 35 U.S.C. 120 for the above-referenced application. Information cited in the priority application is not supplied with this Information Disclosure Statement. Should the examiner require copies of any reference, he is urged to contact Applicants' attorney at the telephone number listed below.

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Respectfully submitted,



**GERALD E. DEITCH**  
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Dated: September 10, 2003  
Enclosures

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1

of

2

**Complete if Known**

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|------------------------|--------------|
| Application Number     | 09/994,135   |
| Filing Date            | 11/26/2001   |
| First Named Inventor   | Gagne et al. |
| Group Art Unit         | 1712         |
| Examiner Name          | UNKNOWN      |
| Attorney Docket Number | PI1245USNA   |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            |  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |  |                                |  |   |
|                        |                          | US - 3,496,215                             |  | 02/17/1970                     | Drinkard et al.                                    |   |
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|                        |                          | US - 5,210,260                             |  | 05/11/1993                     | Bohshar et al.                                     |   |
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**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document  |                     |                                   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear | T <sub>6</sub>           |
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|                        |                          | CountryCode <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup> (if known) |                                |  |   |                          |
|                        |                          | WO93                     | 03839               |                                   | 03/04/1993                     | UNION CARBIDE                                      |   | <input type="checkbox"/> |
|                        |                          | WO95                     | 30680               |                                   | 11/16/1995                     | Kamer et al.                                       |   |                          |
|                        |                          | WO96                     | 22968               |                                   | 08/01/1996                     | E. I. du Pont de Nemours<br>and Company            |   |                          |
|                        |                          | WO98                     | 12202               |                                   | 03/26/1998                     | Polywka et al.                                     |   |                          |
|                        |                          | WO98                     | 43935               |                                   | 10/08/1998                     | MITSUBISHI CHEM. CO.<br>(SEE US6265620)            |   | <input type="checkbox"/> |
|                        |                          | WO99                     | 06146               |                                   | 02/11/1999                     | E. I. DU PONT DE<br>NEMOURS AND<br>COMPANY         |   | <input type="checkbox"/> |
|                        |                          | WO99                     | 13983               |                                   | 03/25/1999                     | BASF(SEE<br>US2001/0014647A1)                      |   | <input type="checkbox"/> |

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Sheet 2 of 2

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| Group Art Unit         | 1712         |
| Examiner Name          | UNKNOWN      |
| Attorney Docket Number | PI1245USNA   |

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|                        |                          | US -                                       | 5,723,641    | 03/03/1998                     | Tam et al.   |   |
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|                        |                          | US -                                       | 2001/0014647 | 08/16/2001                     | BASF (SEE WO9913983)                               |   |
|                        |                          | US -                                       | 6,355,833    | 03/12/2002                     | BASF (SEE WO9913983)                               |   |
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|                        |                          | WO99                     | 46044               |                                   | 09/16/1999                     | BASF (SEE CA129728)                                |   | <input type="checkbox"/> |
|                        |                          | WO99                     | 62855               |                                   | 12/09/1999                     | E. I. du Pont de Nemours<br>and Company            |   | <input type="checkbox"/> |
|                        |                          | WO99                     | 64155               |                                   | 12/16/1999                     | BASF (SEE CA1304334)                               |   | <input type="checkbox"/> |
|                        |                          | EP                       | 0864577             |                                   | 09/16/1998                     | KYOKO ET AL.                                       |   | <input type="checkbox"/> |
|                        |                          | EP                       | 0877029             |                                   | 11/11/1998                     | KYOKO ET AL.                                       |   | <input type="checkbox"/> |
|                        |                          | CN                       | 1292728             |                                   | 03/12/1991                     | BASF (SEE WO9946044)                               |   | <input type="checkbox"/> |
|                        |                          | CN                       | 1304334             |                                   |                                | BASF (SEE WO9964155)                               |   | <input type="checkbox"/> |

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|------------------------|--------------------------|---|--------------------------|
|                        |                          | BAYSTON, DANIEL J. et al., Preparation and Use of a Polymer Supported BINAP Hydrogenation Catalyst, J. Org. Chem. 1998, Volume 63, pp. 3137-3140  | <input type="checkbox"/> |
|                        |                          | NOZAKI, KYOKO ET AL., Asymmetric Hydroformylation of Olefins in a Highly Cross-Linked Polymer Matrix, J. Am. Chem. Soc., 1998, Volume 120, pp. 4051-4052  | <input type="checkbox"/> |
|                        |                          | BRUNKAN, NICOLE M. ET AL., Effect of Chiral Cavities Associated with Molecularly Imprinted Platinum Centers on the Selectivity of Ligand-Exchange Reactions at Platinum, J. Am. Chem. Soc., 2000, Volume 122, pp. 6217-6225                                     | <input type="checkbox"/> |
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| Filing Date            | 11/26/2001    |
| First Named Inventor   | Gagne et al.  |
| Group Art Unit         | 1712          |
| Examiner Name          | Watson, D. R. |
| Attorney Docket Number | PI1245USNA    |

| U.S. PATENT DOCUMENTS  |                          |  |           |                                |  |   |
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|                        |                          | Number – Kind Code <sup>2</sup> (if known) |           |                                |  |   |
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|                        |                          | US -                                       | 6,171,996 | 01/09/2001                     | GARNER ET AL.                                      |   |
|                        |                          | US -                                       |           |                                |  |   |
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| FOREIGN PATENT DOCUMENTS |                          |                          |                     |                                      |                                |  |   |                          |
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|                          |                          | WO                       | 97/33854            |                                      | 09/18/1997                     | E. I. du Pont de Nemours<br>and Company            |   | <input type="checkbox"/> |
|                          |                          | WO                       | 01/21580            |                                      | 03/29/2001                     | E. I. du Pont de Nemours<br>and Company            |   |                          |
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| Sheet | 2 | of | 2 |
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**C mplete if Known**

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| Application Number | 09/994,135 |
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|----------------------|--------------|
| First Named Inventor | GAGNE ET AL. |
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| Group Art Unit | 1712 |
|----------------|------|

|               |         |
|---------------|---------|
| Examiner Name | UNKNOWN |
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| Attorney Docket Number | PI1245USNA |
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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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| Examiner Name  |   | UNKNOWN      |   |                          |  |
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| Sheet  | 2 | of           | 2 |                          |  |

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|  |                       | Comprehensive Organometallic Chemistry, ED: G. Wilkinson, F. g. A. Stone, and E. W. Abel, New York: Pergamon Press 1982, Chapter 55   | <input type="checkbox"/> |  |
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|  |                       | Gloede et al., Z. Anorg. Allg. Chem., 1986, Zur Halogenierung der o-Methoxyphenylester von P <sup>111</sup> -Sauren, Volume 535, 221-228  | <input type="checkbox"/> |  |
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|  |                       | Cabri et al., Acc. Chem. Res., 1995, Recent Developments and New Perspectives in the Heck Reaction, Volume 28, pp. 2-7  | <input type="checkbox"/> |  |
|  |                       | Schlick et al., Acta Polymer, 1996, Catalysis on polymer supports, volume 47, pp. 1-15  | <input type="checkbox"/> |  |
|  |                       | Moroz et al., J. Mol. Catal. A, 1996, Heterogenized Catalysts for Olefin Hydroformylation Containing Cobalt and Palladium-Cobalt Complexes Anchored on Phosphinated SiO <sub>2</sub> : a <sup>13</sup> C Solid-State NMR Study, Chemical 112, pp. 217-233                           | <input type="checkbox"/> |  |
|  |                       | Behringer et al., J. Chem. Soc., Chem. Commun., 1996, Immobilization and Chelation of Metal Complexes with Bifunctional Phosphine Ligands: A Solid-State NMR Study, pp. 653-654   | <input type="checkbox"/> |  |

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| Application Number     | 09/994,135   |
| Filing Date            | 11/26/2001   |
| First Named Inventor   | GAGNE ET AL. |
| Group Art Unit         | 1712         |
| Examiner Name          | UNKNOWN      |
| Attorney Docket Number | PI1245USNA   |

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Date  
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| <b>Notice of References Cited</b> | Application/Control No.<br>09/994,135 | Applicant(s)/Patent Under<br>Reexamination<br>GAGNE ET AL. |             |
|                                   | Examiner<br>Donald R Wilson           | Art Unit<br>1713   | Page 1 of 1 |

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